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DOC. NO. CPI: C1988-128922

TITLE: Polymer composite dielectric used for electrodes - containing fine powder of oxide of ferroelectric substance, rubber-like- and/or resinous-polymers.

DERWENT CLASS: A85 E32 L03 U11 V06

PATENT ASSIGNEE(S): (MITP) MITSUBISHI PETROCHEMICAL CO LTD

COUNTRY COUNT: 1

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC
JP----	63213563	A	19880906	(198841)*	7		<--

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE	
JP----	63213563	A	1987JP-0044970	19870227

PRIORITY APPLN. INFO: 1987JP-0044970 19870227

INT. PATENT CLASSIF.: C08K-003-22; C08L-021-00; C08L-101-00; H01G-007-02;
H01L-041-08

BASIC ABSTRACT:

JP 63213563 A UPAB: 19930923

Polymer composite dielectric comprises (A) fine powder of oxide of ferroelectric substance comprising $(\text{Pb}_{1-x})\text{TiO}_3$ is between 0.35 and 0.95) and (B) rubber-like polymer and/or (C) resinous polymer. (A) is obtd. by contacting an acid aqueous solution containing Pb, Ca and Ti with oxalic acid dissolved in at least one alcohol of ethanol, propanol, pentanol and hexanol, separating obtd. precipitate, neutralising the acid in the precipitate with an amine or ammonia, drying the precipitate, and subjecting it to thermal decomposition. The amount of the oxalic acid is the total of 0.98-1.02 mol per mol of each Pb and Ca and 0.49-0.51 mol per mol of Ti. The amount of (A) is (e.g. 2-150 pts.weight w.r.t. 10 pts.weight of (B) and/or (C)). The amount of the alcohol is (e.g. 1-5 volume per volume of the acid aqueous solution). The thermal decomposition is conducted (e.g. at 700-1100 deg.C). USE/ADVANTAGE - Used for electrodes. It has high dielectric constant. The particle size of (A) can be controlled according to application of the dielectric.

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FILE SEGMENT: CPI EPI

FIELD AVAILABILITY: AB; DCN

MANUAL CODES: CPI: A08-M09A; A08-R; A09-A03; A12-E14; E35-J; E35-K04;
L03-D01

EPI: U11-A02; V06-L01A